SOV/51-6-2-20/39

AUTHORS:

Grum-Grzhimaylo, S.V., Brilliantov, N.A. and Sviridova, R.K.

TITLE:

The Absorption Spectra of Vanadium-Coloured Corundum at Low Temperatures (Down to 1.70K). (Spektry pogloshcheniya korunda, okrashennogo vanadiyem, pri nizkikh temperaturakh (do 1.70K)))

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 2, pp 238-239 (USSR)

ABSTRACT:

The authors obtained the absorption spectra of plane-parallel plates, cut parallel to the optical axis, of vanadium-coloured corundum crystals. The plates were of 28 mm thickness. Measurements were made at low temperatures down to 1.7°K. The records obtained (e.g. Fig a on p 239) show clearly that the absorption spectrum consists of a series of vibrational bands, separated by approximately equal distances from one another. The observed structure agrees fully with Krivoglaz and Pekar's theory (Ref 2). The vibrational structure becomes clearer at 1.7°K, compared with the structure obtained by Grum-Grzhimaylo et al. (Ref 1) at 100°K. The number of bands, in the direction of short wavelengths starting from the narrowest vibrational band, increases from 5-6 to 8-9 on the lowering of the temperature from 100° to 1.7°K. Figs 6 and 8 show bands at 293°K in the blue region, obtained using the

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The Absorption Spectra of Vanadium-Coloured Corundum at Low Temperatures (Down to 1.7°K

ordinary and the extraordinary waves respectively. Fig 2 shows the bands at the violet end obtained at 1.7°K. Fig 3 shows the ordinary (I) and the extraordinary (II) bands at 1.7, 4.2, 77 and 290° (the temperature increases going down in this figure). Fig e is a record of the 4756 and 4757 Å band profiles. In all figures III represents the iron spectraum used for calibration. Acknowledgments are made to A.I. Shal'nikov for his advice. There are 6 figures and 3 Soviet references.

SUBMITTED: June 14, 1958

Card 2/2

SOV/51-6-2-21/39

ASTHORS:

Grum-Grzhimaylo, S.V., Brilliantov, N.A., Sviridova, R.K. and

Dzhamalova, A.S.

TITLE:

The Absorption Spectra of Rubies at Low Temperatures (Down to 1.7°K) (O Spektrakh poglosncheniya rubinov pri nizkikh temperaturakh [do 1.70K])

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 2, pp 240-242 (USSR)

ABS TRACT:

The authors used an ISP-51 glass spectrograph to study the absorption spectra of rubies at the temperatures of liquid nitrogen, hydrogen and helium. Measurements were made in polarized light: the spectra were obtained both for the ordinary and extraordinary waves. Samples were in the form of plane-parallel plates of 0.4-2.3 mm thickness, cut parallel to the optical axis of rubies. Colour of rubies is due to two absorption bands (Figs a and b on p 241): one in the visible region and the other at the boundary between the visible and the ultraviolet regions. Figs a and b represent the spectra obtained using the ordinary and the extraordinary waves respectively. For a sample number 88 with 1.24% of Cr203 a narrow vibrational band in the ordinary light was observed at 5967 Å, and at 5960 Å in the extraordinary light (Figs a, b and g, obtained at 1.70%). In the violet region two intense, strongly

Card 1/2

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The Absorption Spectra of Rubies at Low Temperatures (Down to 1.70K)

polarized absoration lines were observed at 4761 and 4746 Å (Figs a, b and w obtained at 1.70K). The results obtained agree well with Krivo az and Pekar's theory (Ref 6). The authors used rubies containing various amounts of chromium. They found that on increase of the amount of Cr the positions of the absorption bands remained the same but the number of observed bands decreased. Acknowledgments are made to A.I. Shal'nikov for his advice. There are 4 figures and 8 references, 6 of which are Soviet, 1 German and 1 Indian.

SUBMITTED:

June 14, 1958

Card 2/2

GRUM-GRZHIMAYLO, S.V.; BRILLIANTOV, N.A.; SVIRIDOVA, R.K.; SUKHANOVA, O.F.

Changes in the absorption spectrum arising when the temperature of some nickel-colored synthetic crystals is lowered. Kristallografiia 5 no.2:288-294 Mr-Ap *60.

1. Institut kristallografii AN SSSR i Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

(Nickel sulfate--Spectra)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654130012-8"

5/051/62/013/001/014/019 E039/E420

AUTHORS:

Grum-Grzhimaylo, S.V., Brilliantov, N.A., Sviridova, R.K., Sukhanova, O.N., Kapitonova, M.M.

TITLE:

Absorption spectra of iron-coloured beryls at

temperatures from 290 to 1.7°K

PERIODICAL: Optika i spektroskopiya, v.13, no.1, 1962, 133-134

Results obtained by the authors are compared with the earlier work of M. Dvir and W. Low (Phys. Rev., 119, 1960, 1587) who investigated one sample of blue aquamarine beryl at temperatures of 290 and 20°K. Measurements were made on the polarization of light in the absorption spectra of six samples of iron beryls with different colours: yellow, green-yellow and blue at temperatures of 1.7, 4.2, 77 and 290°K. The wide absorption band observed at 270°K in the near infrared is accounted for by the presence of Fe2+ ions and the absorption band in the ultraviolet with a maximum at about 26780 cm⁻¹ by the presence of Fe3+ ions. These latter bands in the ultraviolet for Card 1/3

S/051/62/013/001/014/019 E039/E420

Absorption spectra ...

the iron beryls are not observed in the blue aquamarine. At 77 K very weak narrow absorption bands are observed which become more distinct at 4.2 K. In all samples the extraordinary waves are polarized in the 17190 and 18620 cm⁻¹ bands, particularly in the polarized in the 17190 and 18620 cm⁻¹ bands, particularly in the green-yellow beryl no.209 having a maximum thickness of 6.83 mm. The 18620 There is also a weak unpolarized band at 21520 cm⁻¹. The 18620 and 21520 bands are not given in the work of Dvir and Low. In all samples the extraordinary waves are completely polarized in 1 all samples the extraordinary waves are completely polarized in 17590 cm⁻¹ band. Dvir and Low observed bands at 26780 and 17190 cm⁻¹. No further change in the absorption spectra and 17190 cm⁻¹. No further change in the absorption spectra absorption bands presented by Dvir and Low in their paper were absorption bands presented by Dvir and Low in their paper were absorption bands presented by Dvir and Low in their paper were separated in the octahedral crystal field. The bands observed separated in the octahedral crystal field. The bands observed band 26780 cm⁻¹ transition in Fe³⁺⁶A₀(dy³dy²) — T₂(dy³dy²) and the band 17190 cm⁻¹ as the A_0 (dy³dy²) — T₂(dy⁴dy), transition. Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654130012-8"

s/051/63/014/002/007/026 E039/E120

Grum-Grzhimaylo, S.V., Brilliantov, N.A., AUTHORS:

Sviridov, D.T., Sviridova, R.K., and Sukhanova, O.N.

Absorption spectra of crystals containing Fe3+ for

TITLE: temperatures down to 1.7 °K

PERIODICAL: Optika i spektroskopiya, v.14, no.2, 1963, 223-233

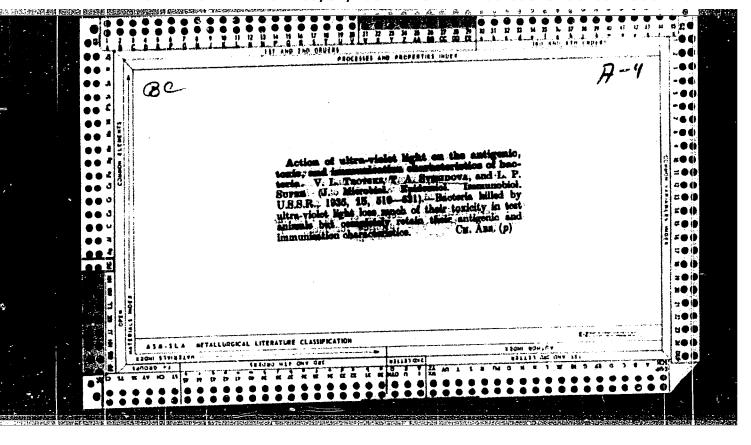
The absorption spectra of demantoid-garnet (Ca3Fe2Si3O12), vesuvianite (H2Ca10(MgFe)Al4Si6O18) and epidote TEXT: (Ca₂(Alfe)O(Si O₄)[Si₂O₇]OH) are obtained at temperatures of 290, 77, 4.2 and 1.7 °K. The spectra were obtained in polarized light using a C - 4 (SF-4) spectrograph for observations at 290 °K, and quartz NC -22 (ISP-22) and glass ISP-51 spectrographs at the lower temperatures. In these crystals the color is produced by the isomorphous substitution of Fe3+ ions for Al3+. At room temperature the absorption spectra of these crystals show wide bands

characteristic of material containing Fe3+ ions. At low temperatures these bands are narrower. The position of these

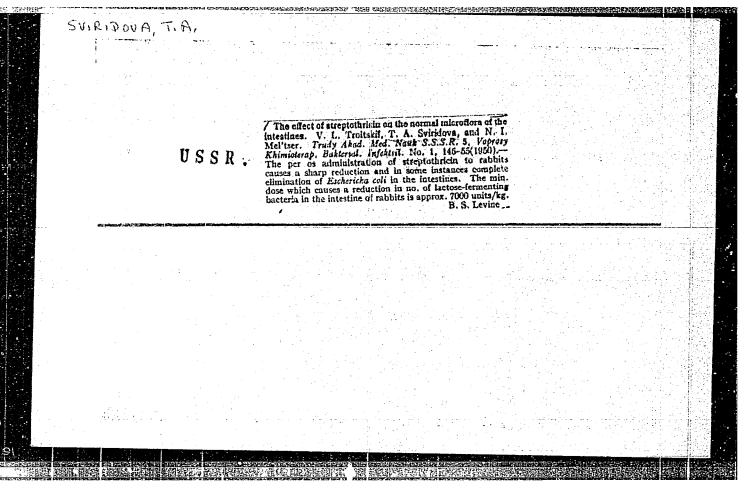
bands for demantoid and epidote is shown in the table.

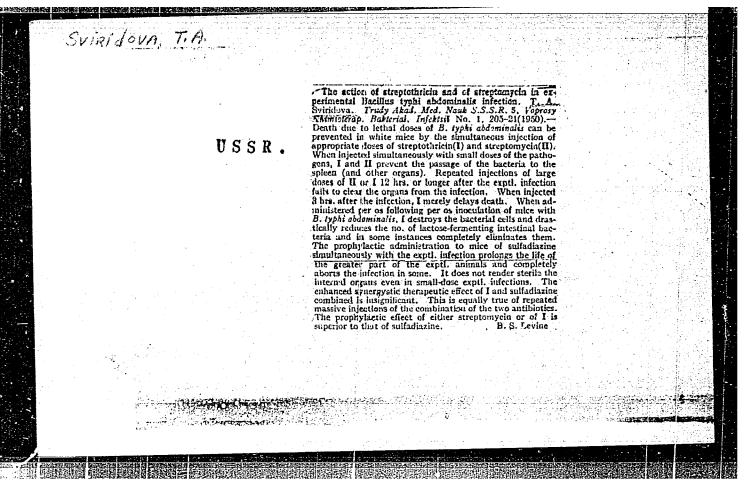
card 1/3

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Absorption	on spectra of	crystals	S/051/63/014/ E039/E120	002/007/026	
•	Fosition of r	narrow absorptio		•	
	Де	мантонд (Demant	oid)		
1 {77	(c) (c) (cp) (cp) (cp) (cp) (cp) (cp) (c	(cp) (cn)	23720 (cn) . (cn	23970 (сл) (ср) (ср) (сл) (сл) (сл) (сл) (сл) (сл) (ср) (ср) (ср) (ср) (ср) (сл)	
	9	индот. (Epidot)			
•	Dand I nonoca	band ROOROH II	Бало! III полоса	IV nonoca (nonspino- nama **) (polocized)	
1.7° 4.2 77 290	21500 (c) 21500 (c) 21300 (cp) 21080 (cn) (p)	22100 (c) 22100 (c) 22030 (c) 21950 (cp) (p)	22620 (o. cn) 22620 (o. cn) 22620 (o. cn)	23040 (an) 23040 (cn)	
Card 3/3	c - strong, p - diffuse	cp - medium, c] - weak, o. c7	- very weak,	
	· .		•	on the second of the second o	
o gomes one or overes on the first				en en en egge græne en egge	



"Joncerning the Diffusion Factor in Jertain Species of Bacteria and a Method for its Determination", Ehur Mikrobiol, Epidemiol i Immunobiol, No. 1, pp 51-53, 1950.





SVI	RIDOVA, V.	
	South American diplomas. Radio no.6:16 Je '65.	(MIRA 18:10)
	l. Starshiy instruktor-metodist TSentral'nogo radiokluba S	SSR.
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Baramboym, N. K., Sviridova, V. A.

AUTHORS: TITLE:

Destruction of Low-pressure Polyethylene

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 8,

PERIODICAL: vysokomotekut, pp. 1193-1195

TEXT: The authors studied the control of the molecular weight of low-pressure polyethylene to lower the temperature of its processing and improve its plastic properties. For this purpose, they used mechanical destruction and cracking under the action of free radicals generated by initiators. To and comparable data on the effect of destruction, experiments were conducted both with nonstabilized polyethylene and with addition of acceptors ducted both with nonstabilized polyethylene and with addition of acceptors ducted both with nonstabilized polyethylene and with addition of acceptors ducted both with nonstabilized polyethylene and with addition of acceptors ducted both with nonstabilized polyethylene and with addition of acceptors ducted both with nonstabilized polyethylene and with addition of acceptors ducted by nonomers (α-bromo styrene, maleic anhydride), and (Captax, Neozone D), monomers (α-bromo styrene, maleic anhydride), and initiators (benzoyl peroxide, isopropyl benzene hydroperoxide, tert-butyl initiators (benzoyl peroxide, isopropyl benzene hydroperoxide, additions amounted to 2% of the polymer. Mechanical benzene hydroperoxide). Additions amounted to 2% of the polymer. Mechanical benzene hydroperoxide). Additions which were cooled by water to 20-25°C, treatment was conducted by rollers which were cooled by water to 20-25°C, treatment was conducted by rollers which were cooled by water to 20-25°C, treatment was conducted by rollers which were cooled by water to 20-25°C, treatment was conducted by rollers which were cooled by water to 20-25°C, treatment was conducted by rollers which were cooled by water to 20-25°C, treatment was conducted by rollers which were cooled by water to 20-25°C, treatment was conducted by rollers which were cooled by water to 20-25°C, treatment was conducted by rollers which were cooled by water to 20-25°C, treatment was conducted by rollers which were cooled by water to 20-25°C, treatment was conducted by rollers which were cooled by water to 20-25°C, treatment was conduc

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Destruction of Low-pressure Polyethylene

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the solubility in toluene at 100°C; 2) by determining the softening temperature; 3) by determining the intrinsic viscosity of the 1% solution in Decalin at 135°C. The results for polyethylene with an initial molecular weight of 300,000 are given in three tables containing the following data:

weight of 300,000 ar Addition Solub	e given	Softening tempera- ture	Molecular we	rolled at
without addition Neozone D maleic aphydride Captax a-bromo styrene	37 58 60 64	133 129 128 128 127	30°C 250,000 158,000 126,000 112,000	practically unchanged
i-butyl hydroper-		127	126,000	31,600
oxide i-propyl hydroper- oxide	C 1	123 117	100,000	28,800 20,400
benzoyl peroxide			- malwethvlene	. rolled with

The dependence of the solubility of low-pressure polyethylene, rolled with Card 2/4

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Destruction of Low-pressure Polyethylene

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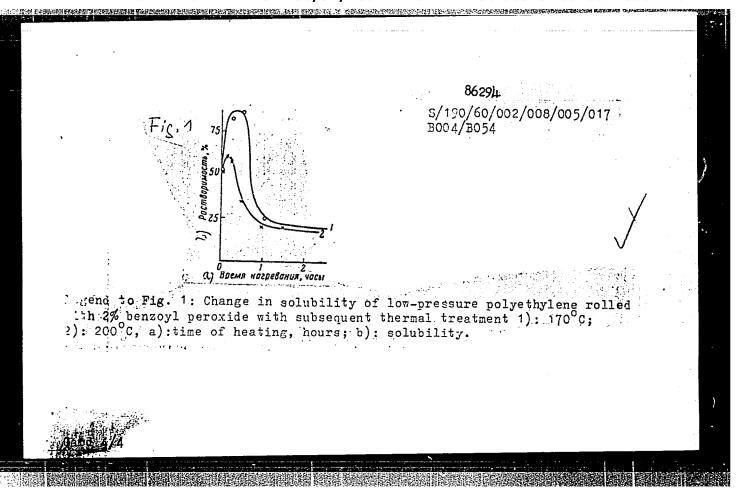
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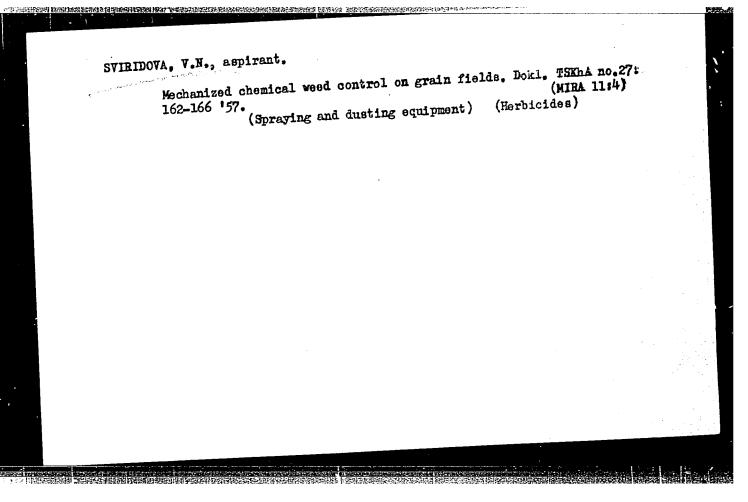
benzoyl peroxide, on the duration of thermal treatment at 170° and 200°C is shown by Fig. 1. Hence, it appears that the effect of destruction by free radicals has a maximum. The solubility decreases with prolonged treatment due to new structuration. Thus, it is possible with the method described to change the molecular weight and properties of low-pressure polyethylene in a wide range, and make them similar to those of high-pressure polyethylene (solubility: 100%, softening temperature 110°C). The authors mention V. A. Kargin and T. I. Sogolova. There are 1 figure, 3 tables, and 6 Soviet references.

ASSOCIATION: Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti

(Moscow Technological Institute of the Light Industry)

SUBMITTED: March 21, 1067





SVIRIDOVA, V.P., prepodavatel

[Accounting and operational technique of the State Bank; program and methodological instructions for third year students attending correspondence schools in accounting and credit and specializing in "Currency circulation and credit" for the 1959 - 1960 school year] Uchet i operatsionnaia tekhnika v Gosbanke; programma i metodicheskie ukazaniia dlia uchashchikhsia - zaochnikov III kursa uchetmokreditnykh tekhnikumov po spetsial nosti Denezhnoe obrashchenie i kredit" na 1959/60 uchebnyi god. Moskva, 1959.

(MIRA 12:10)

1. Gosudarstvennyy bank, Moscow. Upravleniye uchebnymi zavedeniyami.

(Banks and banking)

SVIRIDOVA, V.P., prepodavatel

[Accounting and operational technique of the State Bank; program and methodological instructions for third year students attending correspondence schools in accounting and credit and specializing in "Accounting and operational technique of the State Bank" for the 1959-1960 school year] Uchet i operationnaia tekhnika v the 1959-1960 school year] Uchet i operationnaia tekhnika v Gosbanke; programma i metodicheskie ukazaniia dlia uchashchikhsia-zaochnikov III kursa uchetno-kreditnykh tekhnikumov po spetsial'nosti "Uchet i operativnaia tekhnika v Gosbanke" na 1959/60 uchebnyi god. Moskva, 1959. 40 p. (MIRA 1210)

1. Gosudarstvennyy bank, Moscow. Upravleniye uchebnymi zavedeniyami. (Banks and banking--Accounting)

SVIRIDOVA, Ye.I.

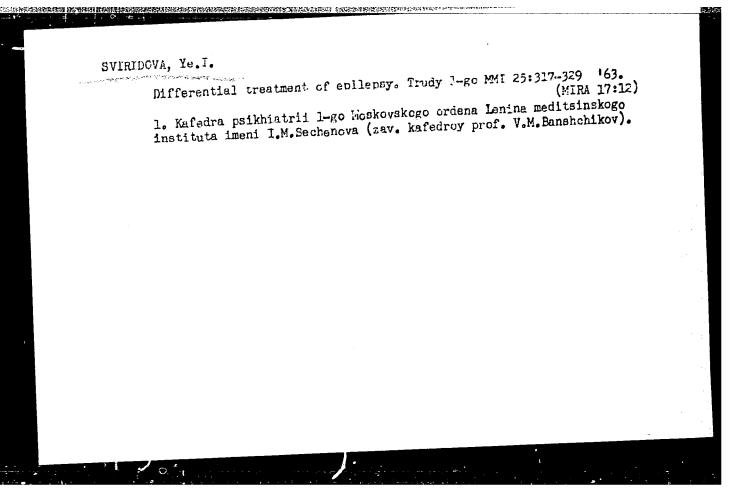
Comparative evaluation of methods for treating epilepsy.

(MIRA 11:9)

Sov.med. 22 no.6:27-30 Je '58

1. Iz psikhiatricheskoy kliniki (dir. - deystvitel'nyy chlen AMN SSSR Ye.A. Popov) imeni S.S. Korsakova I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(EPILEPSY, ther.
anticonvulsants, comparative evaluation (Rus))
(ANTICOMVUISANTS, ther. use.
epilepsy, comparisons (Rus))



SVIRIDOVA, Ye.I.

Treatment of epilepsy with kalypnon. Trudy 1-go MMI 25:330-333 '63.

(MIRA 17:12)

1. Kafedra psikhiatrii 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova (zav. kafedroy pro?, V.M.Banshchikov).

SVIRIDOVA, Ye.I.

Treatment of epilepsy with epimide. Trudy 1-go MMI 25:334-337 163.

(MIRA 17:12)

1. Kafedra psikhiatrii 1-go Moskovakogo ordena Ienina meditsinskogo instituta imeni I.M.Sechenova (zav. kafedroy prof. V.M.Banshchikov).

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PA 32/49T59

SVIRIDOVA, Z. A.

USSR/Metals

Sep 48

Austenite
Magnetic Susceptibility

"The Magnetic Susceptibility of Austenite Steel,"
Z. A. Sviridova, G. V. Estulin, Moscow Steel Inst
imeni I. V. Stalin, 22 pp

"Zhur Tekh Fiz" Vol XVIII, No 9

Authors have designed special apparatus enabling paramagnetic susceptibility of metals to be measured by Faraday's method (see "Lovod Lab," XII, 76). r. Gives results of tests on sustenite steel of composition 0.45% C, 14.4% Cr, 15.0% Mn, and 2.5% W. Submitted 25 Mar 48.

MANUKYAN, A.A.; GLUSHKOV, V.P.; SHVEDKOVA, V.M.; SVIRIDOVA, Z.P.; CHEBOTA-REVA, Ye.A.; SHUMILIN, V.I.; PUDINA, K.V.; BRAGINA, N.M.; LUTSKAYA, Ye.Ye.; KODACHENKO, A.S.; KOSOVA, V.A.; MOKLYARSKIY, B.I.; GRECHIKHIN, A.A.; KULIKOV, N.I.; RYDVANOV, N.F.; BEL'CHUK, A.I.; VINTSER, Yu.I.; ROZENTAL', Ye.I.; BELCUS, T.Ya.; SIDOROV, V.F.; ZHDANOVA, L.P.; ALEKSANDROVSKAYA, L.I.; KOVAL', V.V.; KHAVINSON, Ya.S., glavnyy red.; ALEKSEYEV, A.M., red.; ARZUMANYAN, SOKOLOV, I.A., zam.glavnogo red.; ALEKSEYEV, A.M., red.; ARZUMANYAN, A.A., red.; BELYAKOV, A.S., red.; BECHIN, A.I., red.; VARGA, Ye.S., red.; LEMIN, I.M., red.; LYUBIMOVA, V.V., red.; SKOROV, G.Ye., red.; V redaktirovanii uchastvovali: SHAPIRO, A.I., red.; TATISHCHEV, S.I.. KOVRIGINA, Ye., tekhn.red.

[Economic conditions of capitalistic countries; review of business conditions for 1958 and the beginning of 1959] Ekonomicheskoe polozhenie kapitalisticheskikh stran; kon"iunkturnyi obzor za 1958 g. zhenie kapitalisticheskikh stran; kon"iunkturnyi obzor za 1958 g. i nachalo 1959 g. Moskva, Izd-vo "Pravda," 1959. 127 p. (Priloinachalo 1959 g. Mirovaia ekonomika i mezhdunarodnye otnosheniia, "Mirovaia ekonomika i mezhdunarodnye otnosheniia," (MIRA 12:9)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdunarodnykh otnosheniy. 2. Kollektiv sotrudnikov kon yunkturnogo sektora Instituta mirovoy ekonomiki i mezhdunarodnykh otnosheniy AN SSSR (for tuta mirovoy ekonomiki i mezhdunarodnykh otnosheniy AN SSSR (for flushkov, Shvedkova, Sviridova, Chebotareva, Shumilin, Pudina, Bragina, Glushkov, Shvedkova, Kosova, Moklyarskiy, Grechikhin, Kulikov, Rydva-Iutskaya, Kodachenko, Kosova, Moklyarskiy, Grechikhin, Kulikov, Rydva-nov, Bel'chuk, Vintser, Rozental', Belous, Sidorov, Zhdanova, Aleksandrovskaya, Koval'). (Economic conditions)

MANUKYAN, A.A.; RYDVANOV, N.F.; BELOUS, T.Ya.; SVIRIDOVA, Z.P.; CHEBOTAREVA, Ye.A.; SHUMILIN, V.I.; PUDINA, K.V.; LUTSKAYA, Ye.Ye.; BRAGINA, Ye.A.; SANDAKOV, V.A.; MUSSO, S.; ZABLOTSKAYA, A.I.; VDOVICHENKO, N.M.; SANDAKOV, V.A.; MUSSO, S.; ZABLOTSKAYA, A.I.; VDOVICHENKO, D.I.; MIRKINA, I.Z.; MORENO, I.; SIDOROV, V.F.; MOKLYARSKIY, B.I.; GRECHIKHIN, A.A.; KOSOVA, V.A.; KULIKOV, N.I.; ZHDANOVA, L.P.; ROZENTAL', Ye.I.; PETRANOVICH, I.M.

[Economic conditions of capitalist countries; survey of economic trends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962 Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1961 and the beginning of 1962] Ekonomicheskoe polotrends in 1962 and 1962 a

1. Sotrudniki kon"yunkturnogo sektora Instituta mirovoy ekonomiki i mezhdunarodnykh otnosheniy AN SSSR.

(Economic history)

